

**AIRFLOW SENSOR, SYSTEM AND METHOD FOR DETECTING
AIRFLOW WITHIN AN AIR HANDLING SYSTEM**

Abstract of the Disclosure

5 An airflow sensor including a housing, a flexible substrate, and electrical
components. The housing defines an internal compartment and a top face
opening. The substrate includes circuitry traces, and defines a front and a back.
The substrate is disposed within the compartment such that the back is exposed
relative to the opening. The electrical components are electrically connected to
10 the circuitry traces, extending from the front of the substrate opposite the
opening, and include a heated temperature sensor spaced from a baseline
temperature sensor. During use, airflow interfaces with the substrate back to
cool the heated temperature sensor. The extent of this cooling as compared to
the baseline temperature sensor is indicative of airflow. The system and method
15 include detecting the presence or absence of airflow based upon a temperature
differential between the temperature sensors as well as a rate of change in the
temperature differential.